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IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 Claim 1 (currently amended): An isolated nucleic acid encoding an IRAK-4 polypeptide, said polypeptide having IL-1R/Toll family member signal 2 3 transduction activity and at least about 98% amino acid sequence identity to SEQ ID 4 NO:1 or to a subsequence thereof, wherein the amino acid sequence of the polypeptide 5 comprises an alanine residue at an amino acid position corresponding to amino acid 6 position 81 of SEQ ID NO:1, and wherein said nucleic acid comprises at least about 400 7 nucleotides. 1 Claim 2 (original): The nucleic acid of claim 1, wherein the polypeptide 2 further comprises an amino acid selected from the group consisting of: 3 (i) a valine residue at an amino acid position corresponding to amino acid 4 position 432 of SEQ ID NO:1; 5 (ii) a leucine residue at an amino acid position corresponding to amino 6 acid position 437 of SEQ ID NO:1; 7 (iii) an arginine residue at an amino acid position corresponding to amino 8 acid position 444 of SEQ ID NO:1; and 9 (iv) a glutamine residue at an amino acid position corresponding to amino 10 acid position 451 of SEQ ID NO:1. 1 Claim 3 (original): The nucleic acid of claim 2, wherein the polypeptide 2 comprises each of the amino acids listed as (i) to (iv). 1 Claim 4 (original): The nucleic acid of claim 1, wherein the polypeptide 2 comprises an amino acid sequence of SEQ ID NO:1.

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Claim 5 (cancelled)

	1	Claim 6 (original): The nucleic acid of claim 1, wherein the polypeptide
	2	comprises at least about 450 amino acids.
	1	Claim 7 (original): The nucleic acid of claim 1, wherein the nucleic acid
	2	comprises a cytosine at a nucleotide position corresponding to nucleotide position 242 of
	3	SEQ ID NO:2.
	1	Claim 8 (original): The nucleic acid of claim 7, wherein the nucleic acid
	2	further comprises a nucleotide selected from the group consisting of:
	3	(i) a thymine at a nucleotide position corresponding to nucleotide position
	4	1295 of SEQ ID NO:2;
	5	(ii) a thymine at a nucleotide position corresponding to nucleotide
	6	position 1302 of SEQ ID NO:2;
	7	(iii) a thymine at a nucleotide position corresponding to nucleotide
	8	position 1310 of SEQ ID NO:2;
	9	(iv) an adenine at a nucleotide position corresponding to nucleotide
	10	position 1332 of SEQ ID NO:2; and
	11	(v) an adenine at a nucleotide position corresponding to nucleotide
r'	12	position 1353 of SEQ ID NO:2.
	1	Claim 9 (original): The nucleic acid of claim 8, wherein the nucleic acid
	2	comprises each of the nucleotides listed as (i) to (v).
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	1	Claim 10 (original): The nucleic acid of claim 1, wherein the nucleic acid
	2	comprises a nucleotide sequence of SEQ ID NO:2.
	1	Claim 11 (original): The nucleic acid of claim 1, wherein the nucleic acid
	2	comprises at least about 1350 nucleotides.
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1	Claim 12 (original): The nucleic acid of claim 1, wherein the polypeptide
2	specifically binds to antibodies generated against a polypeptide comprising an amino acid
3	sequence of SEQ ID NO:1.
1	Claim 13 (original): The nucleic acid of claim 1, wherein the nucleic acid
2	is operably linked to a promoter.
1	Claim 14 (original): An expression cassette comprising the nucleic acid
2	of claim 13.
1	Claim 15 (original): An isolated cell comprising the expression cassette
2	of claim 14.
	Claims 16-30 (cancelled)
1	Claim 31 (currently amended): A method of making an IRAK-4
2	polypeptide, the method comprising:
3	(i) introducing a nucleic acid into a host cell or cellular extract, said
4	nucleic acid encoding an IRAK-4 polypeptide, said polypeptide having IL-1R/Toll family
5	member signal transduction activity and at least about 98% amino acid sequence identity
6	to SEQ ID NO:1 or to a subsequence thereof, wherein the amino acid sequence of the
7	polypeptide comprises an alanine residue at an amino acid position corresponding to
8	amino acid position 81 of SEQ ID NO:1, and wherein said nucleic acid comprises at least
9	about 400 nucleotides;
10	(ii) incubating said host cell or cellular extract under conditions such that
11	said IRAK-4 polypeptide is expressed in the host cell or cellular extract; and
12	(iii) recovering the IRAK-4 polypeptide from the host cell or cellular
13	extract.

Claims 32-62 (cancelled)

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- Claim 63 (previously added): The method of claim 31, wherein said 1
- 2 polypeptide comprises an amino acid sequence of SEQ ID NO:1.

Claims 64-66 (cancelled)

Claim 67 (New): The nucleic acid of claim 1, wherein said IL-1R/Toll 1

family member signal transduction activity is NFkB activation activity.